

09/889,031

L38 ANSWER 2 OF 3 USPATFULL on STN

ACCESSION NUMBER: 2000:167500 USPATFULL

TITLE: Water resistant **sunscreen** and **insect repellent** composition

INVENTOR(S): Stewart, Ernest Glading, Thomasville, GA, United States

PATENT ASSIGNEE(S): Iguana, LLC, Thomasville, GA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6159452		20001212
APPLICATION INFO.:	US 1999-340837		19990628 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1996-640478, filed on 1 May 1996, now patented, Pat. No. US 5916541, issued on 29 Jun 1999 which is a continuation-in-part of Ser. No. US 1993-154584, filed on 18 Nov 1993, now patented, Pat. No. US 5518712, issued on 21 May 1996 which is a continuation-in-part of Ser. No. US 1992-904514, filed on 25 Jun 1992, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Dodson, Shelley A.		
ASSISTANT EXAMINER:	Williamson, Michael A.		
LEGAL REPRESENTATIVE:	Asman, Sanford J.		
NUMBER OF CLAIMS:	20		
EXEMPLARY CLAIM:	1		
LINE COUNT:	673		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An improved sunscreen protection and **insect repellent** combination composition having an SPF factor of about 2 to about 50 and further having an unexpected, unusually long efficacy period when used in rainy conditions or prolonged periods of high humidity, such as in a tropical or sub-tropical rain forests, or the like, and after the wearer has been underwater. The composition forms a stable **emulsion** lotion that is easy to store. No special precautions are required by the person who applies the lotion. The composition includes a sunscreen agent, an **insect repellent**, including 3-[N-Butyl-N-acetyl]-aminopropionic acid, ethyl ester ("IR3535.TM."), an emulsifying agent, and a **film former**, all in an aqueous solvent. The composition forms a thin film on the skin, but it is non-greasy to the touch. The lotion is easily removed by scrubbing with soap and water.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L38 ANSWER 3 OF 3 USPATFULL on STN

ACCESSION NUMBER: 1999:72236 USPATFULL

TITLE: Water resistant **sunscreen** and **insect repellent** composition

INVENTOR(S): Stewart, Ernest G., 101 West Club Dr., Thomasville, GA, United States 31792

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5916541		19990629
APPLICATION INFO.:	US 1996-640478		19960501 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1993-154584, filed on 18 Nov 1993, now patented, Pat. No. US 5518712, issued on 21 May 1996 which is a continuation-in-part of Ser. No. US 1992-904514, filed on 25 Jun 1992, now abandoned		

09/889,031

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Dees, Jose G.
ASSISTANT EXAMINER: Williamson, Michael A.
LEGAL REPRESENTATIVE: Asman, Sanford J.
NUMBER OF CLAIMS: 20
EXEMPLARY CLAIM: 1
LINE COUNT: 643

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An improved sunscreen protection and **insect repellent** combination composition having an SPF factor of about 2 to about 50 and further having an unexpected, unusually long efficacy period when used in rainy conditions or prolonged periods of high humidity, such as in a tropical or sub-tropical rain forests, or the like, and after the wearer has been underwater. The composition forms a stable **emulsion** lotion that is easy to store. No special precautions are required by the person who applies the lotion. The composition includes a sunscreen agent, an **insect repellent**, an emulsifying agent, and a **film former**, all in an aqueous solvent. The composition forms a thin film on the skin, but it is non-greasy to the touch. The lotion is easily removed by scrubbing with soap and water.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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(FILE 'HOME' ENTERED AT 09:10:52 ON 17 MAY 2004)

FILE 'USPATFULL' ENTERED AT 09:11:10 ON 17 MAY 2004

L1 141782 S SUNSCREEN? OR UV
L2 2744548 S METHOD? OR PROCESS?
L3 138644 S L1 AND L2
L4 1917 S INSECT REPELLENT?
L5 715 S L3 AND L4
L6 653 S INORGANIC?(P)SUNSCREEN?
L7 715 S L3 AND L4
L8 101 S L5 AND L6
L9 190711 S EMULSION?
L10 91 S L8 AND L9
L11 47924 S OIL-IN-WATER?
L12 80 S L10 AND L11
L13 67673 S EMULSIFIER?
L14 66 S L12 AND L13
L15 5288 S FILM FORMER?
L16 10 S L14 AND L15
L17 1953 S L1/TI
L18 64 S L17 AND L4
L19 53492 S ZINC OXIDE? OR TITANIUM DIOXIDE?
L20 41 S L18 AND L19
L21 1397 S ?TOLUAMIDE?
L22 14 S L20 AND L21
L23 14 S L22 AND L13
L24 14 S L23 AND L9
L25 12441 S OXYBENZONE? OR ?CINNAMATE?
L26 13 S L24 AND L25
L27 10 S DEET AND L26
L28 78954 S EDTA
L29 7 S L27 AND L28
L30 40 S TRICONTANYL PVP
L31 0 S L30 AND L29
L32 5288 S FILM FORMER?

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L33	5 S L32 AND L29
L34	30688 S PERFUME?
L35	894 S THICKNER?
L36	38597 S THICKENER?
L37	3 S L36 AND L33
L38	3 S L37 AND L34

=>

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L1 141782 S SUNSCREEN? OR UV
L2 2744548 S METHOD? OR PROCESS?
L3 138644 S L1 AND L2
L4 1917 S INSECT REPELLENT?
L5 715 S L3 AND L4
L6 653 S INORGANIC? (P) SUNSCREEN?
L7 715 S L3 AND L4
L8 101 S L5 AND L6
L9 190711 S EMULSION?
L10 91 S L8 AND L9
L11 47924 S OIL-IN-WATER?
L12 80 S L10 AND L11
L13 67673 S EMULSIFIER?
L14 66 S L12 AND L13
L15 5288 S FILM FORMER?
L16 10 S L14 AND L15
L17 1953 S L1/TI
L18 64 S L17 AND L4
L19 53492 S ZINC OXIDE? OR TITANIUM DIOXIDE?
L20 41 S L18 AND L19
L21 1397 S ?TOLUAMIDE?
L22 14 S L20 AND L21
L23 14 S L22 AND L13

=> s l23 and l9

L24 14 L23 AND L9

=> s oxybenzone? or ?cinnamate?

1026 OXYBENZONE?

12308 ?CINNAMATE?

L25 12441 OXYBENZONE? OR ?CINNAMATE?

=> s l24 and l25

L26 13 L24 AND L25

=> s DEET and l26

433 DEET

L27 10 DEET AND L26

=> s EDTA

L28 78954 EDTA

=> s l27 and l28

L29 7 L27 AND L28

=> s tricontanyl PVP

61 TRICONTANYL

13075 PVP

L30 40 TRICONTANYL PVP
(TRICONTANYL(W) PVP)

=> s l30 and l29

L31 0 L30 AND L29

=> s film former?

606244 FILM

268690 FORMER?

L32 5288 FILM FORMER?
(FILM(W) FORMER?)

=> s l32 and l29

L33 5 L32 AND L29

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=> s perfume?

L34 30688 PERFUME?

=> s thickner?

L35 894 THICKNER?

=> s thickener?

L36 38597 THICKENER?

=> s l36 and l33

L37 3 L36 AND L33

=> s l37 and l34

L38 3 L37 AND L34

=> d 1-3 ibib abs

L38 ANSWER 1 OF 3 USPATFULL on STN

ACCESSION NUMBER: 2001:147446 USPATFULL

TITLE: Water resistant **sunscreen** and **insect repellent** composition

INVENTOR(S): Stewart, Ernest Glading, Thomasville, GA, United States

PATENT ASSIGNEE(S): Iguana, LLC, Thomasville, GA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6284227	B1	20010904
APPLICATION INFO.:	US 2000-736766		20001212 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1999-340837, filed on 28 Jun 1999, now patented, Pat. No. US 6159452, issued on 12 Dec 2000 Continuation-in-part of Ser. No. US 1996-640478, filed on 1 May 1996, now patented, Pat. No. US 5916541, issued on 29 Jun 1999		
	Continuation-in-part of Ser. No. US 1993-154584, filed on 18 Nov 1993, now patented, Pat. No. US 5518712, issued on 21 May 1996 Continuation-in-part of Ser. No. US 1992-904514, filed on 25 Jun 1992, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Williamson, Michael A.		
LEGAL REPRESENTATIVE:	Asman, Sanford J.		
NUMBER OF CLAIMS:	20		
EXEMPLARY CLAIM:	1		
LINE COUNT:	678		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An improved sunscreen protection and **insect repellent** combination composition having an SPF factor of about 2 to about 50 and further having an unexpected, unusually long efficacy period when used in rainy conditions or prolonged periods of high humidity, such as in a tropical or sub-tropical rain forests, or the like, and after the wearer has been underwater. The composition forms a stable **emulsion** lotion that is easy to store. No special precautions are required by the person who applies the lotion. The composition includes a sunscreen agent, an **insect repellent**, including p-menthane-3,8-diols, an emulsifying agent, and a **film former**, all in an aqueous solvent. The composition forms a thin film on the skin, but it is non-greasy to the touch. The lotion is easily removed by scrubbing with soap and water.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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NEWS 4 JAN 27 A new search aid, the Company Name Thesaurus, available in
CA/CAPLUS
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changes
NEWS 6 MAR 03 MEDLINE and L MEDLINE reloaded
NEWS 7 MAR 03 MEDLINE file segment of TOXCENTER reloaded
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NEWS 10 MAR 29 WPIFV now available on STN
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NEWS 13 APR 26 IFIPAT/IFIUDB/IFICDB: New super search and display field
available
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NEWS 15 APR 27 NLDB: New search and display fields available
NEWS 16 May 10 PROUSDDR now available on STN
NEWS 17 May 19 PROUSDDR: One FREE connect hour, per account, in both May
and June 2004
NEWS 18 May 12 EXTEND option available in structure searching
NEWS 19 May 12 Polymer links for the POLYLINK command completed in REGISTRY

NEWS EXPRESS MARCH 31 CURRENT WINDOWS VERSION IS V7.00A, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 26 APRIL 2004
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=> file uspatfull
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

FULL ESTIMATED COST

FILE 'USPATFULL' ENTERED AT 09:11:10 ON 17 MAY 2004
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FILE COVERS 1971 TO PATENT PUBLICATION DATE: 13 May 2004 (20040513/PD)
FILE LAST UPDATED: 13 May 2004 (20040513/ED)
HIGHEST GRANTED PATENT NUMBER: US6735778
HIGHEST APPLICATION PUBLICATION NUMBER: US2004093652
CA INDEXING IS CURRENT THROUGH 13 May 2004 (20040513/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 13 May 2004 (20040513/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2004
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2004

>>> USPAT2 is now available. USPATFULL contains full text of the <<<
>>> original, i.e., the earliest published granted patents or <<<
>>> applications. USPAT2 contains full text of the latest US <<<
>>> publications, starting in 2001, for the inventions covered in <<<
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>>> classifications, or claims, that may potentially change from <<<
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This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> s sunscreen? or uv
6667 SUNSCREEN?
138134 UV
L1 141782 SUNSCREEN? OR UV

=> s method? or process?
2301514 METHOD?
2206581 PROCESS?
L2 2744548 METHOD? OR PROCESS?

=> s l1 and l2
L3 138644 L1 AND L2

=> s insect repellent?
44526 INSECT
16844 REPELLENT?
L4 1917 INSECT REPELLENT?
(INSECT(W) REPELLENT?)

=> s l3 and l4
L5 715 L3 AND L4

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=> s inorganic?(p)sunscreen?

296900 INORGANIC?

6667 SUNSCREEN?

L6 653 INORGANIC?(P)SUNSCREEN?

=> s l3 and l4

L7 715 L3 AND L4

=> s l5 and l6

L8 101 L5 AND L6

=> s emulsion?

L9 190711 EMULSION?

=> s l8 and l9

L10 91 L8 AND L9

=> s oil-in-water?

512664 OIL

1143243 WATER?

L11 47924 OIL-IN-WATER?
(OIL(1W)WATER?)

=> s l10 and l11

L12 80 L10 AND L11

=> s emulsifier?

L13 67673 EMULSIFIER?

=> s l12 and l13

L14 66 L12 AND L13

=> s film former?

606244 FILM

268690 FORMER?

L15 5288 FILM FORMER?
(FILM(W)FORMER?)

=> s l14 and l15

L16 10 L14 AND L15

=> d 1-10 ibib abs

L16 ANSWER 1 OF 10 USPATFULL on STN

ACCESSION NUMBER: 2003:180243 USPATFULL

TITLE: Photostable **sunscreen** compositions and
methods of stabilizing

INVENTOR(S): Gonzalez, Anthony D., Waldwick, NJ, UNITED STATES
Pechko, Andrew H., Ridgewood, NJ, UNITED STATES

Kalafsky, Robert E., Ogdensburg, NJ, UNITED STATES
PATENT ASSIGNEE(S): Avon Products Inc. (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003124070	A1	20030703
APPLICATION INFO.:	US 2002-226757	A1	20020823 (10)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 2001-20642, filed on 14 Dec 2001, GRANTED, Pat. No. US 6440402		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	CHARLES N.J. RUGGIERO, ESQ., OHLANDT, GREELEY, RUGGIERO		

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& PERLE, L.L.P., 10th FLOOR, ONE LANDMARK SQUARE,
STAMFORD, CT, 06901-2682

NUMBER OF CLAIMS: 92
EXEMPLARY CLAIM: 1
LINE COUNT: 760

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB There is provided a photostable and synergistically enhanced topical **sunscreen** composition. There is further provided a **method** of enhancing the photostability of a **sunscreen** active in a topical **sunscreen** composition. There is further still provided a **method** of synergistically enhancing the **UV** absorbance of a **sunscreen** active in a topical **sunscreen** composition. The preferred compositions and **methods** of the present invention use a dibenzoylmethane **sunscreen** active, a Keempferia galanga extract, and a cosmetically acceptable vehicle.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 2 OF 10 USPATFULL on STN

ACCESSION NUMBER: 2003:105871 USPATFULL
TITLE: Combined insect repellent and sunscreen composition
INVENTOR(S): Friel, Michael Christopher, New South Wales, AUSTRALIA
Ahyong, Rachel Louise, New South Wales, AUSTRALIA
Thompson, Ian Andrew, New South Wales, AUSTRALIA

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003072782	A1	20030417
APPLICATION INFO.:	US 2002-889031	A1	20020118 (9)
	WO 2001-GB68		20010111
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	FISH & RICHARDSON P.C., 45 ROCKEFELLER PLAZA, SUITE 2800, NEW YORK, NY, 10111		
NUMBER OF CLAIMS:	23		
EXEMPLARY CLAIM:	1		
LINE COUNT:	423		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A combined **insect repellent** and **sunscreen** composition is disclosed including 3-9 % by weight in total of at least two **emulsifiers**, based on the total weight of the composition. The composition preferably comprises titanium dioxide as the **inorganic** compound and N, N-diethyl-m-toluamide and dipropyl pyridine-2,5-dicarboxylate as **insect repellents**. A **method** of manufacturing a **sunscreen** composition is also disclosed. The composition including one or more **insect repellents** and one or more **sunscreening** agents, is the form of an **emulsion** having an oil phase and a water phase and is manufactured by preparing the oil phase and the water phase and combining to form an **emulsion** prior to the addition of at least one **inorganic** compound used as a **sunscreening** agent.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 3 OF 10 USPATFULL on STN

ACCESSION NUMBER: 2003:64244 USPATFULL
TITLE: **Sunscreen** formulations containing waterborne polyurethane polymers
INVENTOR(S): Meyer, Thomas A., Germantown, NJ, UNITED STATES
Beasley, Donathan G., Memphis, TN, UNITED STATES

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PATENT ASSIGNEE(S): SCHERING-PLOUGH HEALTHCARE PRODUCTS, INC. (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003044364	A1	20030306
APPLICATION INFO.:	US 2002-185070	A1	20020628 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-302056P	20010629 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	SCHERING-PLOUGH CORPORATION, PATENT DEPARTMENT (K-6-1, 1990), 2000 GALLOPING HILL ROAD, KENILWORTH, NJ, 07033-0530	
NUMBER OF CLAIMS:	19	
EXEMPLARY CLAIM:	1	
LINE COUNT:	710	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A formulation for topical application, the formulation comprising a waterborne polyurethane polymer; a thickening agent; a humectant, at least one **sunscreen** active agent, and an emulsifying agent.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 4 OF 10 USPATFULL on STN

ACCESSION NUMBER: 2003:40395 USPATFULL

TITLE: **Sunscreen emulsion** composition and **method** of use

INVENTOR(S): Gonzalez, Anthony D., Waldwick, NJ, United States
Pechko, Andrew H., Ridgewood, NJ, United States
Wang, Helen, Suffern, NY, United States

PATENT ASSIGNEE(S): Avon Products, Inc., New York, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6517816	B1	20030211
APPLICATION INFO.:	US 2001-32847		20011226 (10)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Dodson, Shelley A.		
LEGAL REPRESENTATIVE:	Ohlandt, Greeley, Ruggiero & Perle, LLP		
NUMBER OF CLAIMS:	37		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	3 Drawing Figure(s); 3 Drawing Page(s)		
LINE COUNT:	492		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB There is provided a **sunscreen emulsion** composition.
The composition has an inner discontinuous phase and an outer continuous phase. The inner discontinuous phase and/or outer continuous phase has a **sunscreen** active therein. The inner discontinuous phase is generally dispersed in the outer continuous phase and is in the form of discrete droplets having a multimodal droplet size distribution. There is also provided a **method** of protecting skin from overexposure to the sun in which the above composition is applied topically to the skin. There is also provided a **method** of enhancing the performance of a **sunscreen emulsion** by forming the inner discontinuous phase as a multiplicity of droplets having a multimodal droplet size distribution. There is also provided a **method** of preparing an **emulsifier-free**

sunscreen composition.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 5 OF 10 USPATFULL on STN

ACCESSION NUMBER: 2002:265503 USPATFULL

TITLE: Cosmetic or pharmaceutical lecithin-containing gels or low viscosity lecithin-containing O/W microemulsions

INVENTOR(S): Schreiber, Jorg, Hamburg, GERMANY, FEDERAL REPUBLIC OF
Wolf, Florian, Hamburg, GERMANY, FEDERAL REPUBLIC OF
Croizet, Delphine, Jarnac, FRANCE

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002146375	A1	20021010
APPLICATION INFO.:	US 2001-894771	A1	20010628 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	DE 1998-19859427	19981222
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Kurt G. Briscoe, Norris McLaughlin & Marcus, P.A., 30th Floor, 220 East 42nd Street, New York, NY, 10017	
NUMBER OF CLAIMS:	9	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1928	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A gel or low-viscosity transparent or translucent microemulsion of the **oil-in-water** type, comprising at least one phospholipid and at least one **oil-in-water emulsifier**.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 6 OF 10 USPATFULL on STN

ACCESSION NUMBER: 2002:216816 USPATFULL

TITLE: Photostable **sunscreen** compositions and **methods** of stabilizing

INVENTOR(S): Gonzalez, Anthony D., Waldwick, NJ, United States
Pechko, Andrew H., Ridgewood, NJ, United States
Kalafsky, Robert E., Ogdensburg, NJ, United States

PATENT ASSIGNEE(S): Avon Products, Inc., New York, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6440402	B1	20020827
APPLICATION INFO.:	US 2001-20642		20011214 (10)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Dodson, Shelley A.		
LEGAL REPRESENTATIVE:	Ohlandt, Greeley, Ruggiero & Perle, LLP		
NUMBER OF CLAIMS:	40		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	0 Drawing Figure(s); 0 Drawing Page(s)		
LINE COUNT:	504		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB There is provided a photostable and synergistically enhanced topical **sunscreen** composition. There is further provided a **method** of enhancing the photostability of a **sunscreen** active in a topical **sunscreen** composition. There is further

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still provided a **method** of synergistically enhancing the **UV** absorbance of a **sunscreen** active in a topical **sunscreen** composition. The preferred compositions and **methods** of the present invention use a dibenzoylmethane **sunscreen** active, an extract of Kaempferia Galanga, and a cosmetically acceptable vehicle.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 7 OF 10 USPATFULL on STN

ACCESSION NUMBER: 2002:209095 USPATFULL
TITLE: Enhanced SPF **sunscreen** (sprayable)
formulations comprising interpolymers of
PVP/dimethiconylacrylate/polycarbamyl/polyglycol ester
INVENTOR(S): Hansenne, Isabelle, Westfield, NJ, United States
Rick, Donald W., Dumont, NJ, United States
PATENT ASSIGNEE(S): Societe L'Oreal S.A., Paris, FRANCE (non-U.S.
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6436377	B1	20020820
APPLICATION INFO.:	US 2001-791734		20010226 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Dodson, Shelley A.		
LEGAL REPRESENTATIVE:	Burns, Doane, Swecker & Mathis, L.L.P.		
NUMBER OF CLAIMS:	32		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	0 Drawing Figure(s); 0 Drawing Page(s)		
LINE COUNT:	985		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Topically applicable cosmetic/dermatological compositions well suited for both effective and SPF-enhanced **UV**-photoprotection of human skin, hair and/or scalp, most preferably packaged as spray delivery systems, contain (a) an effective **UV**-photoprotecting amount of at least one **UV-A** and/or **UV-B** **sunscreen**, most notably the **sunscreen** avobenzene, and (b) an amount of the interpolymers PVP/dimethiconylacrylate/polycarbamyl/polyglycol ester effective to statistically significantly enhance the SPF value of said at least one **UV-A** and/or **UV-B** or avobenzene **sunscreen**, formulated into (c) a topically applicable, cosmetically/dermatologically acceptable vehicle, diluent or carrier therefor; the subject compositions optionally contain a thus-effective amount of an artificial/sunless tanning agent.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 8 OF 10 USPATFULL on STN

ACCESSION NUMBER: 2002:209094 USPATFULL
TITLE: Enhanced SPF **UV-sunscreen**
/tricontanyl PVP photoprotecting (sprayable)
formulations
INVENTOR(S): Hansenne, Isabelle, Westfield, NJ, United States
Rick, Donald W., Dumont, NJ, United States
PATENT ASSIGNEE(S): Societe L'Oreal S.A., Paris, FRANCE (non-U.S.
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6436376	B1	20020820
APPLICATION INFO.:	US 2001-791603		20010226 (9)

09/889,031

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Dodson, Shelley A.
LEGAL REPRESENTATIVE: Burns, Doane, Swecker & Mathis, L.L.P.
NUMBER OF CLAIMS: 32
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 0 Drawing Figure(s); 0 Drawing Page(s)
LINE COUNT: 915

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Topically applicable cosmetic/dermatological compositions well suited for both effective and SPF-enhanced UV-photoprotection of human skin, hair and/or scalp, most preferably packaged as spray delivery systems, contain (a) an effective UV-photoprotecting amount of at least one UV-A and/or UV-B **sunscreen**, most notably the **sunscreen** avobenzene, and (b) an amount of the copolymer tricontanyl PVP effective to statistically significantly enhance the SPF value of said at least one UV-A and/or UV-B or avobenzene **sunscreen**, formulated into (c) a topically applicable, cosmetically/dermatologically acceptable vehicle, diluent or carrier therefor; the subject compositions optionally contain a thus-effective amount of an artificial/sunless tanning agent.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 9 OF 10 USPATFULL on STN

ACCESSION NUMBER: 2002:198296 USPATFULL
TITLE: Use of nanodispersions in cosmetic end formulations
INVENTOR(S): Huglin, Dietmar, Eimeldingen, GERMANY, FEDERAL REPUBLIC OF
Roding, Joachim Friedrich, Badenweiler, GERMANY, FEDERAL REPUBLIC OF
Supersaxo, Andreas Werner, Baar, SWITZERLAND
Weder, Hans Georg, Ruschlikon, SWITZERLAND

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002106390	A1	20020808
APPLICATION INFO.:	US 2001-16903	A1	20011214 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1999-306005, filed on 6 May 1999, ABANDONED		

	NUMBER	DATE
PRIORITY INFORMATION:	EP 1998-810421	19980511
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	JoAnn Vilamizar, Ciba Specialty Chemicals Corporation, 540 White Plains Road, P.O. Box 2005, Tarrytown, NY, 10591-9005	
NUMBER OF CLAIMS:	31	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1075	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A description is given of the use of a nanodispersion, which comprises

- (a) a membrane-forming molecule,
- (b) a coemulsifier and
- (c) a lipophilic component,

in cosmetic end formulation, which nanodispersion is obtainable by

(α) mixing the components (a), (b) and (c) until a homogeneous clear liquid is obtained, and

(β) adding the liquid obtained in step (α) to the water phase of the cosmetic end formulations, steps (α) and (β) being carried out without any additional supply of energy.

The nanodispersions used according to this invention can be easily prepared and are suitable as carrier systems for a very wide range of cosmetic active agents and oil-soluble dyes.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 10 OF 10 USPATFULL on STN

ACCESSION NUMBER: 2000:128522 USPATFULL

TITLE: Zwitterionic siloxane polymers and ionically cross-linked polymers formed therefrom

INVENTOR(S): Gormley, John L., Midland Park, NJ, United States
Berger, Abe, Summit, NJ, United States
Fost, Dennis L., Ridgwood, NJ, United States

PATENT ASSIGNEE(S): Mona Industries, Inc., Paterson, NJ, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6124490		20000926
APPLICATION INFO.:	US 1999-427216		19991026 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Shaver, Paul F.		
LEGAL REPRESENTATIVE:	Schoenberg, Franklyn, Lehrer, Norman E.		
NUMBER OF CLAIMS:	16		
EXEMPLARY CLAIM:	1		
LINE COUNT:	1309		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Ionically cross-linked silicone polymers of a thickened gel-like consistency are made by reacting a diamino containing polysiloxane with an acid containing reactant selected from itaconic acid or the ester derivative thereof; substituted or unsubstituted cyclic and anhydride; substituted or unsubstituted conjugated olefinic acid or mixtures of the same at an elevated temperature in the presence of a low molecular weight silicone oil or other solvent until an ionically cross-linked zwitterionic siloxane polymer of a gel-like consistency is formed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

09/889,031

L12 80 S L10 AND L11
L13 67673 S EMULSIFIER?
L14 66 S L12 AND L13
L15 5288 S FILM FORMER?
L16 10 S L14 AND L15
L17 1953 S L1/TI
L18 64 S L17 AND L4
L19 53492 S ZINC OXIDE? OR TITANIUM DIOXIDE?
L20 41 S L18 AND L19
L21 1397 S ?TOLUAMIDE?
L22 14 S L20 AND L21
L23 14 S L22 AND L13
L24 14 S L23 AND L9
L25 12441 S OXYBENZONE? OR ?CINNAMATE?
L26 13 S L24 AND L25
L27 10 S DEET AND L26
L28 78954 S EDTA
L29 7 S L27 AND L28
L30 40 S TRICONTANYL PVP
L31 0 S L30 AND L29
L32 5288 S FILM FORMER?
L33 5 S L32 AND L29
L34 30688 S PERFUME?
L35 894 S THICKNER?
L36 38597 S THICKENER?
L37 3 S L36 AND L33
L38 3 S L37 AND L34

=> s us5916541/pn

L39 1 US5916541/PN

=> s l38 and l39

L40 1 L38 AND L39

=> d kwic

L40 ANSWER 1 OF 1 USPATFULL on STN

TI Water resistant **sunscreen** and **insect repellent** composition

PI US 5916541 19990629

AB An improved sunscreen protection and **insect repellent** combination composition having an SPF factor of about 2 to about 50 and further having an unexpected, unusually long efficacy. . . tropical or sub-tropical rain forests, or the like, and after the wearer has been underwater. The composition forms a stable **emulsion** lotion that is easy to store. No special precautions are required by the person who applies the lotion. The composition includes a sunscreen agent, an **insect repellent**, an emulsifying agent, and a **film former**, all in an aqueous solvent. The composition forms a thin film on the skin, but it is non-greasy to the.

SUMM This invention relates to a synergistic sunscreen and **insect repellent** composition, and in particular to an improved water resistant combination sunscreen and **insect repellent** composition. The compound is non-greasy, pleasant smelling, and sweet tasting with an approximate SPF factor of 15. Although the compound.

SUMM . . . diseases that reduce military effectiveness are transmitted by insects. It is imperative for peak military operational efficiency that an acceptable **insect repellent** be produced to reduce the disease threat and to provide personal protection from insect borne diseases. The **insect repellent** must also meet the

unique requirements necessary for personal protection of the armed forces. When considering the broad spectrum of. . . and acceptable to the user. Also, the military spends long periods of time outdoors and accordingly, an acceptable sunscreen and **insect repellent** combination for use by field military personnel is highly desirable, particularly if it is compatible with other military materials, such. . .

SUMM The military services have not developed a satisfactory sunscreen **insect repellent** composition that meets their unique operating needs.

SUMM . . . people who live and work and play in the outdoors. They have protected themselves from insects for years by using **insect repellents**. Likewise, people who live and play and work outdoors have used suntan compounds to accelerate the darkening of the exposed.

SUMM Many civilian products have become commercially available in the recent past that combine sunscreen lotions and **insect repellent** lotions in one package. These products, for many reasons, are not completely satisfactory. Some of the reasons why they are. . .

SUMM First, the **insect repellent** compositions available are greasy, have a foul odor, and are usually effective only for short periods and require the person. . . example, in a duck blind this is very inconvenient, because the person in the duck blind cannot repeatedly apply the **insect repellent** lotion while remaining perfectly motionless.

SUMM Second, many combination **insect repellent** and sunscreen compositions are easily removed with water. This is a particular problem in the summertime when the person sweats. The effectiveness of the **insect repellent** and sunscreen composition is dramatically reduced due to sweat removing the composition from the skin.

SUMM Third, most **insect repellent** compositions are oily and offensive to the olfactory system of the wearer as well as to those people who are. . .

SUMM U.S. Pat. No. 4,756,905, entitled "**INSECT-REPELLENT CAMOUFLAGE COMPOSITION**", issued on Jul. 12, 1988 to J. Melnik discloses a composition for repelling insects and camouflaging the human skin. The **insect repellent**, N,N-diethyl-m-toluamide ("**DEET**"), and a camouflage pigment are combined along with an optional **emulsifier** to allow a single application to serve both the camouflage and **insect repellent** functions.

SUMM U.S. Pat. No. 3,590,118, entitled "**LONG LASTING INSECT REPELLENT FILMS FOR SKIN AND OTHER SUBSTRATES**", issued on Jun. 29, 1971 to J. A. Conrady, et al. discloses a long lasting **insect repellent** film for skin application. The active chemical agents are dissolved in interpolymer resins to provide a slow release system for. . .

SUMM . . . **PROTECTIVE OINTMENT**", issued on Jan. 27, 1948 to W. F. Huppke, et al. discloses a cream or ointment containing a **film-former** so that the cream or ointment forms a film on the wearer's skin. The cream or ointment may include an **insect repellent** or a sunscreen, or both. Preferably, the **film former** is a mixture of ethyl cellulose and shellac.

SUMM U.S. Pat. No. 4,477,467, entitled "**INSECT REPELLENT**", issued on Oct. 16, 1984 to K. Nishizawa, et al. discloses the use of **DEET** in combination with certain proton acceptors for the purpose of inhibiting the absorption of **DEET** into the wearer's skin.

SUMM U.S. Pat. No. 2,356,801, entitled "**INSECT REPELLENT COMPOSITION**", issued on Aug. 29, 1944 to B. V. Travis, et al. discloses an **insect repellent** composition in which four

insect repellent compounds are combined to improve the effectiveness of the composition.

- SUMM In particular, the prior art does not teach a combination sunscreen and **insect repellent** composition that is a stable **emulsion** which, when on a wearer's skin, promotes waterproofing and maintains its SPF for protracted periods of time.
- SUMM Although there have been many inventions related to sunscreen protection and **insect repellent** compositions, none of the prior art has provided an effective, low cost and reliable product which has achieved general use.
- SUMM In brief, the invention is a sunscreen and **insect repellent** composition having an extremely long efficacy period when used in rainy conditions and prolonged periods of high humidity, as in. . . of between about 2 and about 50, and preferably in the range of between about 15 and about 30. An **insect repellent** agent constitutes between about 7% to about 33% by weight of the composition. The composition further includes a plurality of. . . contributing to the composition's synergistically long efficacy period. In particular, these ingredients are an emulsifying agent (for forming a stable **emulsion**) and a film forming agent (so that the composition forms a film when applied to a wearer's skin).
- SUMM The composition forms a stable **emulsion** lotion that is easy to store. Proper application of the lotion requires little or no training or special precautions. When. . .
- SUMM The present invention is a stable **emulsion** composition that provides protection from the sun's ultraviolet rays while simultaneously acting as an **insect repellent**. The composition includes a sunscreen agent, an **insect repellent** agent, an emulsifying agent, and a film forming agent, all in an aqueous solvent. The composition can also include a **thickener**, at least one fragrance, and at least one sweetener.
- SUMM In a preferred embodiment of the invention, the **insect repellent** agent is N,N-diethyl-m-toluamide ("**DEET**") present in an amount ranging from about 7% to about 33% by weight (wt %). Other **insect repellents**, such as citronella, can be used. However, **DEET** is currently the most effective **insect repellent** compound which is known, and presently approved for such use. The amount of **DEET** in the composition preferably ranges from about 12 wt % to about 22 wt %. In the most preferred embodiment, **DEET** comprises about 17 wt %.
- SUMM . . . to 340 nm. In order to achieve this SPF in the presence of 12 wt % to 22 wt % **DEET**, in a preferred embodiment three sunscreens are used that have different absorption peaks. Octyl **methoxycinnamate** (ethylhexyl p-**methoxycinnamate**), a shorter ultraviolet ("**UV**") wavelength, or UV-B absorber, is used in an amount from about 2 wt % to about. . . Octyl salicylate, a UV-B absorber, is used in an amount from about 3 wt % to about 5 wt %. **Oxybenzone** (benzophenone-3), a longer UV wavelength, or UV-A absorber, is used in an amount from about 2 wt % to about. . . agent may comprise a member of the group consisting of menthyl anthranilate, dioxybenzone, aminobenzoic acid, amyl dimethyl PABA, diethanolamine p-methoxy **cinnamate**, ethyl 4-bis(hydroxypropyl) aminobenzoate, 2-ethylhexyl 1-2-cyano-3,3-diphenylacrylate, homomenthyl salicylate, glyceryl aminobenzoate, dihydroxyacetone, octyl dimethyl PABA, 2-phenylbenzimidazole-5-sulfonic acid, triethanolamine salicylate, **zinc oxide**, and titanium oxide.
- SUMM In a preferred embodiment of the invention, a combination of **emulsifiers** is used to achieve the desired result of a stable **emulsion** containing from about 7 wt % to about 33 wt % **insect repellent** and a sunscreen agent in an amount sufficient to provide an SPF from about 2 to about 50. An ethoxylated. . . % to about 0.20 wt % or, preferably, about 0.15 wt %. This